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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/893,399	06/29/2001	Masatoshi Arishiro	018976-199	6008
7590 08/15/2006			EXAMINER	
Platon N. Mandros			MAYES, MELVIN C	
BURNS, DOAN	NE, SWECKER & MAT	HIS, L.L.P.		
P.O. Box 1404			ART UNIT	PAPER NUMBER
Alexandria, VA 22313-1404			1734	
			DATE MAILED: 08/15/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
	09/893,399	ARISHIRO ET AL.
Office Action Summary	Examiner	Art Unit
	Melvin Curtis Mayes	1734
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed the mailing date of this communication. D (35 U.S.C. § 133).
Status		
 1) Responsive to communication(s) filed on 26 Ag 2a) This action is FINAL. 2b) This 3) Since this application is in condition for allowar closed in accordance with the practice under E 	action is non-final. nce except for formal matters, pro	
Disposition of Claims		
4)	vn from consideration.	
9) ☐ The specification is objected to by the Examiner 10) ☑ The drawing(s) filed on 29 June 2001 is/are: a) Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction 11) ☐ The oath or declaration is objected to by the Examiner	☐ accepted or b)☒ objected to drawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list of 	s have been received. s have been received in Application ity documents have been received (PCT Rule 17.2(a)).	on No ed in this National Stage
Attachment(s)		
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 4/26/06.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

(1)

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after allowance or after an Office action under *Ex Parte Quayle*, 25 USPQ 74, 453 O.G. 213 (Comm'r Pat. 1935). Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, prosecution in this application has been reopened pursuant to 37 CFR 1.114. Applicant's submission filed on April 26, 2006 has been entered.

Allowable Subject Matter

(2)

The indicated allowability of claims 1, 3 and 5-9 is withdrawn in view of the newly discovered reference(s) to the IBM Technical Disclosure Bulletins. Rejections based on the newly cited reference(s) follow.

(3)

Applicant is advised that the Notice of Allowance mailed is vacated. If the issue fee has already been paid, applicant may request a refund or request that the fee be credited to a deposit account. However, applicant may wait until the application is either found allowable or held abandoned. If allowed, upon receipt of a new Notice of Allowance, applicant may request that the previously submitted issue fee be applied. If abandoned, applicant may request refund or credit to a specified Deposit Account.

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Drawings

(4)

The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the drive for driving the rack to be raised and lowered in a vertical direction must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

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Claim Rejections - 35 USC § 103

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(5)

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

(6)

Claims 1, 3 and 5-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over IBM Technical Disclosure Bulletin (Cochran et al.) in view of IBM Technical Disclosure Bulletin (Anzelone et al.).

IBM Technical Disclosure Bulletin (Cochran et al.) discloses a stacking complex for stacking green sheets comprising:

handlers 1 holding a plurality of trays 2 for delivering green sheets to an orientor, each tray holding greensheets separated by spacers (corresponds to sheet supplier including a plurality of trays each holding green sheets);

stacking carrier onto which green sheets are stacked (corresponds to a laminator);

vacuum transfer head 4 for transferring green sheets from a tray and conveying the green sheet to the stacking carrier (corresponds to a conveyor device in the form of a chucking device); and

a controller (corresponds to a processor unit) (see Fig. 3). As shown in Figure 2, a plurality of trays are vertically aligned in each handler. IBM TDB (Cochran et al.) does not specifically disclose that the handler includes a rack into which the trays are vertically aligned or vertically movable, tray drawer device for drawing trays from the rack, and rails to guide a tray drawing operation.

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IBM Technical Disclosure Bulletin (Anzelone et al.) teach that the handler for transfer of greensheets from trays to an orientor is provided as a magazine containing trays in which green sheets are located. Upon computer demand, the magazine is raised or lowered (see direction arrows in Figure 1) to a proper cavity location in which gripper assembly 4 grips and moves a given tray from the magazine to orientor for removal by a transfer head. Various process equipment is under computer order makeup control.

It would have been obvious to one of ordinary skill in the art to have modified the stacking complex of IBM TDB (Cochran et al.) by providing the handler with a magazine which contains the trays and which is vertically raised and lowered and a gripper assembly for gripping and moving a tray from the magazine, as taught by IBM TDB (Anzelone et al.), as a handler used to under computer control to deliver green sheets from trays to an orientor for further processing such a pickup by a transfer head.

By providing a movable gripper assembly to grip and remove trays from the magazine, a tray drawer device for drawing trays and rails for guiding the tray drawer device are obviously provided. By providing the vertically aligned trays in a magazine from which they can be removed, a rack for vertically aligning the trays is obviously provided. By providing the magazine as movable vertically, the handler is obviously provided with a drive for driving the rack to be raised and lowered in a vertical direction.

By providing the controller and computer as taught by IBM TDB (Anzelone et al.) to control various process equipment including control of transfer of green sheets from trays, a processor unit adapted to receive data concerning at least type, order in lamination and quantity of green sheets for lamination is obviously provided.

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Conclusion

(7)

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Melvin Curtis Mayes whose telephone number is 571-272-1234. The examiner can normally be reached on Mon-Fri 7:30 AM - 4:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chris Fiorilla can be reached on 571-272-1187. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Melvin Curtis Mayes Primary Examiner Art Unit 1734

MCM August 8, 2006